

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/523,655
Source: PG/10
Date Processed by STIC: 2/22/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,655

TIME: 08:55:57

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\02222005\J523655.raw

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3 <110> APPLICANT: Loma Linda University
4     ESCHER, Alan P.
5     LI, Fengchun
7 <120> TITLE OF INVENTION: Substances for Preventing and Treating Autoimmune Diseases
9 <130> FILE REFERENCE: 14102-1US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/523,655
12 <141> CURRENT FILING DATE: 2005-02-04
14 <150> PRIOR APPLICATION NUMBER: US 60/401,652
15 <151> PRIOR FILING DATE: 2002-08-06
17 <150> PRIOR APPLICATION NUMBER: PCT/US03/24625
18 <151> PRIOR FILING DATE: 2003-08-06
20 <160> NUMBER OF SEQ ID NOS: 7
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 579
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <400> SEQUENCE: 1
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32 aagacagggg cccttttgct tcagggtttc atccaggatc gagcagggcg aatggggggg      120
34 gaggcaccg agctggccct ggacccggtg cctcaggatg cgtccaccaa gaagctgagc      180
36 gagtgtctca agcgcacgag ggacgaactg gacagtaaca tggagctgca gaggatgatt      240
38 gccgccgtgg acacagactc ccccccagag gtctttttcc gagtggcagc tgacatgttt      300
40 tctgacggca acttcaactg gggccgggtt gtcgcccttt tctactttgc cagcaaactg      360
42 gtgctcaagg ccctgtgcac caagggtgcc gaactgatca gaaccatcat gggctggaca      420
44 ttggacttcc tccgggagcg gctgttgggc tggatccaag accagggtgg ttgggacggc      480
46 ctccctctct actttgggac gccacagtgg cagaccgtga ccactcttgt ggcgggagtg      540
48 ctccaccgct cgctcaccat ctggaagaag atgggctga      579
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 492
53 <212> TYPE: DNA
54 <213> ORGANISM: Human adenovirus type 2
56 <400> SEQUENCE: 2
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59 gttgagttta aggaaccagc ttgcaatggt acatttaaat cagaagctaa tgaatgcact      120
61 actcttataa aatgcaccac agaacatgaa aagcttatta ttcgccacaa agacaaaatt      180
63 ggcaagtatg ctgtatatgc tatttggcag ccagggtgac ctaacgacta taatgtcaca      240
65 gtcttccaag gtgaaaatcg taaaactttt atgtataaat ttccatttta tgaaatgtgc      300
67 gatattacca tgtacatgag caaacagtac aagttgtggc cccacaaaaa gtgttttagag      360
69 aacactggca ccttttgttc caccgctctg cttattacag cgcttgcttt ggtatgtacc      420
71 ttactttatc tcaaatacaa aagcagacgc agttttattg atgaaaagaa aatgccttga      480
73 ttttccgctt gc      492
76 <210> SEQ ID NO: 3

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77 <211> LENGTH: 599

78 <212> TYPE: DNA

79 <213> ORGANISM: Homo sapiens

81 <400> SEQUENCE: 3

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82 atggcgccacg ctgggagaag tggttacgat aaccgggaga tagtgatgaa gtacatccat    60
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86 ctacagcccg tgccacctgt ggtccacctg accctccgcc aggcgcgcga cgacttctcc    180
88 cgccgctacc gcccgactt cgccgagatg tccagccagc tgcacctgac gcccttcacc    240
90 gcgcggggat gctttgccac ggtggtggag gagctcttca gggacggggg gaactggggg    300
92 aggattgttg ccttctttga gttcgggtggg gtcattgtgt tggagagcgt caaccgggag    360
94 atgtcgcccc tgggtggaca catcgccctg tggatgactg agtacctgaa cgggcacctg    420
96 cacacctgga tccaggataa cggaggctgg gatgcctttg tggaaactga cggccccagc    480
98 atgcggcctc tgtttgatit ctcttggttg tctctgaaga ctctgctcag tttggccctg    540
100 gtgggagctt gcatcaccct ggggtgcctat ctgggccaca agtgaagtca acatgcctg    599

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103 <210> SEQ ID NO: 4

104 <211> LENGTH: 619

105 <212> TYPE: DNA

106 <213> ORGANISM: Encephalomyocarditis virus

108 <400> SEQUENCE: 4

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109 tctagataat acgactcact atagggcgaa ttccccctct cctccccccc ccctaactgt    60
111 tactggccga agccgcttgg aataaggccg gtgtgcgttt gtctatatgt tattttccac    120
113 catattgccg tcttttggca atgtgagggc ccggaaacct ggccctgtct tcttgacgag    180
115 cattcctagg ggtctttccc ctctcgccaa aggaatgcaa ggtctgttga atgtcgtgaa    240
117 ggaagcagtt cctctggaag cttcttgaag acaacaacg tctgtagcga ccctttgcag    300
119 gcagcggaac cccccacctg gcgacaggtg cctctgcggc caaaagccag gtgtataaga    360
121 tacacctgca aaggcggcac aaccccagtg ccacgttgtg agttggaata gttgtggaaa    420
123 gagtcaaatt gctctctcta agcgtattca acaaggggct gaaggatgcc cagaaggtac    480
125 ccattgtgat gggatctgat ctggggcctc ggtgcacatg ctttacctgt gtttagtoga    540
127 ggttaaaaaa cgtctaggcc ccccaaccac ggggacgtgg ttttcttttg aaaaacacga    600
129 ttattatatt gcctctaga                                619

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132 <210> SEQ ID NO: 5

133 <211> LENGTH: 1868

134 <212> TYPE: DNA

135 <213> ORGANISM: Homo sapiens

137 <400> SEQUENCE: 5

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138 gagctccacc gcggtggcgg ccgctctaga ccaccatggc atctccgggc tctggctttt    60
140 ggtcttttcg gtgcgaagat ggctctgggg attccgagaa tcccggcaca gcgcgagcct    120
142 ggtgccaaat ggctcagaag ttacggggcg gcatcggaag caaactgtgc gccctgtctt    180
144 acggagacgc cgagaagccg gcggagagcg gcgggagcca acccccgcgg gccgcgcgcc    240
146 ggaaggccgc ctgcgcctgc gaccagaagc cctgcagctg ctccaaagtg gatgtcaact    300
148 acgcgtttct ccatgcaaca gacctgtgc cggcgtgtga tggagaaagg ccacttttg    360
150 cgtttctgca agatgttatg aacattttac ttcagtatgt ggtgaaaagt ttcgatagat    420
152 caaccaagt gattgatttc cattatccta atgagcttct ccaagaatat aattgggaat    480
154 ttgcagacca accaaaaat ttggaggaaa ttttgatgca ttgcaaaaca actctaaaat    540
156 atgcaattaa aacagggcat cctagatact tcaatcaact ttctactggg ttggatatgg    600
158 ttggattagc agcagactgg ctgacatcaa cagcaaatac taacatgttc acctatgaaa    660
160 ttgctccagt atttgtgctt ttggaatatg tcacactaaa gaaaatgaga gaaatcattg    720
162 gctggccagg gggctctggc gatgggatat tttctccggg tggcgccata tctaactgt    780
164 atgccatgat gatcgcacgc ttttaagatg tcccagaagt caaggagaaa ggaatggctg    840

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166 ctcttcccag gctcattgcc ttcacgtctg aacatagtca tttttctctc aagaagggag 900
168 ctgcagcctt agggattgga agagacagcg tgattctgat taaatgtgat gagagagggga 960
170 aaatgattcc atctgatctt gaaagaagga ttcttgaagc caaacagaaa gggtttggtc 1020
172 ctttctcgt gagtgccaca gctggaacca ccgtgtacgg agcatttgac cccctcttag 1080
174 ctgtcgctga catttgcaaa aagtataaga tctggatgca tgtggatgca gcttgggggtg 1140
176 ggggattact gatgtcccga aaacacaagt ggaaactgag tggcgtggag agggccaact 1200
178 ctgtgacgtg gaatccacac aagatgatgg gagtcccttt gcagtgggtc gctctcctgg 1260
180 ttagagaaga gggattgatg cagaattgca accaaatgca tgcctcctac ctctttcagc 1320
182 aagataaaca ttatgacctg tcctatgaca ctggagacaa ggccttacag tgcggacgcc 1380
184 acgttgatgt ttttaaacta tggctgatgt ggagggcaaa ggggactacc gggtttgaag 1440
186 cgcattgtga taaatgtttg gagttggcag agtatttata caacatcata aaaaccgag 1500
188 aaggatatga gatggtgttt gatgggaagc ctgaggacac aaatgtctgc ttctggtaca 1560
190 ttctccaag cttgctgact ctggaagaca atgaagagag aatgagtcgc ctctcgaagg 1620
192 tggctccagt gattaaagcc agaatgatgg agtatggaac cacaatggtc agctaccaac 1680
194 ccttgggaga caaggtcaat ttcttccgca tggatcatctc aaaccacagc gcaactcacc 1740
196 aagacattga cttcctgatt gaagaaatag aacgccttgg acaagattta taataacctt 1800
198 gctcaccaag ctgttccact tctctaggta gcgacctcga gcggccgctc gagggggggc 1860
200 ccgtacc 1868
203 <210> SEQ ID NO: 6
204 <211> LENGTH: 1638
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial
208 <220> FEATURE:
209 <223> OTHER INFORMATION: secreted form of human GAD
211 <400> SEQUENCE: 6
212 atgtacagga tgcaactcct gtcttgcatg gcactaagtc ttgcacttgt cacaacacagt 60
214 gcacctactt acgcgtttct ccatgcaaca gacctgctgc cggcgtgtga tggagaaagg 120
216 ccacttttgg cgtttctgca agatgttatg aacattttac ttcagtatgt ggtgaaaagg 180
218 ttcgatagat caaccaaagt gattgatttc cattatccta atgagcttct ccaagaatat 240
220 aattgggaat tggcagacca accacaaaat ttggaggaaa ttttgatgca ttgccaaaca 300
222 actctaaaat atgcaattaa aacagggcac ctagatact tcaatcaact ttctactgg 360
224 ttggatatgg ttggattagc agcagactgg ctgacatcaa cagcaaatac taacatgttc 420
226 acctatgaaa ttgctccagt atttgtgctt ttggaatatg tcacactaaa gaaatgaga 480
228 gaaatcattg gctggccagg gggctctggc gatgggatat tttctcccgg tggcgccata 540
230 tctaacatgt atgccatgat gatcgcacgc ttaagatgt tcccagaagt caaggagaaa 600
232 ggaatggctg ctcttcccag gctcattgcc ttcacgtctg aacatagtca tttttctctc 660
234 aagaagggag ctgcagcctt agggattgga agagacagcg tgattctgat taaatgtgat 720
236 gagagagggg aaatgattcc atctgatctt gaaagaagga ttcttgaagc caaacagaaa 780
238 gggtttggtc ctttctcgt gagtgccaca gctggaacca ccgtgtacgg agcatttgac 840
240 cccctcttag ctgtcgctga catttgcaaa aagtataaga tctggatgca tgtggatgca 900
242 gcttgggggt ggggattact gatgtcccga aaacacaagt ggaaactgag tggcgtggag 960
244 agggccaact ctgtgacgtg gaatccacac aagatgatgg gagtcccttt gcagtgggtc 1020
246 gctctcctgg ttagagaaga gggattgatg cagaattgca accaaatgca tgcctcctac 1080
248 ctctttcagc aagataaaca ttatgacctg tcctatgaca ctggagacaa ggccttacag 1140
250 tgcggacgcc acgttgatgt ttttaaacta tggctgatgt ggagggcaaa ggggactacc 1200
252 gggtttgaag cgcattgtga taaatgtttg gagttggcag agtatttata caacatcata 1260
254 aaaaaccgag aaggatatga gatggtgttt gatgggaagc ctgaggacac aaatgtctgc 1320
256 ttctggtaca ttctccaag cttgctgact ctggaagaca atgaagagag aatgagtcgc 1380
258 ctctcgaagg tggctccagt gattaaagcc agaatgatgg agtatggaac cacaatggtc 1440

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260 agctaccaac ccttgggaga caaggtcaat ttcttccgca tggatcatctc aaaccacagcg 1500
262 gcaactcacc aagacattga cttcctgatt gaagaaatag aacgccttgg acaagattta 1560
264 taataacctt gctcaccaag ctgttccact tctctaggta gcgacctoga gcggccgctc 1620
266 gagggggggc ccggtacc 1638
269 <210> SEQ ID NO: 7
270 <211> LENGTH: 1271
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial
274 <220> FEATURE:
275 <223> OTHER INFORMATION: secreted form of Renilla luciferase
277 <400> SEQUENCE: 7
278 atgtacagga tgcaactcct gtcttgcaat gcactaagtc ttgcacttgt cacaacacagt 60
280 gcacctactg aattcagctt aaagatgact tcgaaagtgt atgatccaga acaaaggaaa 120
282 cggtatgataa ctgggtccgca gtgggtgggccc agatgtaaac aaatgaatgt tcttgattca 180
284 tttattaatt attatgattc agaaaaacat gcagaaaaatg ctgttatttt tttacatggt 240
286 aacgcggcct cttcttattt atggcgacat gttgtgccac atattgagcc agtagcgcg 300
288 tgtattatac cagatcttat tgggtatggc aaatcaggca aatctggtaa tggttcttat 360
290 aggttacttg atcattacaa atatcttact gcatggtttg aacttcttaa tttaccaaag 420
292 aagatcattt ttgtcggcca tgattggggt gctgctttgg catttcatta tagctatgag 480
294 catcaagata agatcaaagc aatagttcac gctgaaagtg tagtagatgt gattgaatca 540
296 tgggatgaat ggcctgatat tgaagaagat attgcgttga tcaaactctga agaaggagaa 600
298 aaaatggttt tggagaataa cttcttcgtg gaaacatgt tgccatcaaa aatcatgaga 660
300 aagttagaac cagaagaatt tgcagcatat cttgaacat tcaaagagaa aggtgaagtt 720
302 cgtcgtccaa cattatcatg gcctcgtgaa atcccgttag taaaagggtg taaacctgac 780
304 gttgtacaaa ttgttaggaa ttataatgct tatctacgtg caagtgatga tttacaaaa 840
306 atgtttattg aatcggatcc aggattcttt tccaatgcta ttgttgaagg cgccaagaag 900
308 tttcctaata ctgaatttgt caaagtaaaa ggtcttcatt tttcgcaaga agatgcacct 960
310 gatgaaatgg gaaaatatat caaatcgttc gttgagcgag ttctcaaaaa tgaacaataa 1020
312 ttactttggt tttttattta catttttccc gggtttaata atataaatgt cattttcaac 1080
314 aattttattt taactgaata tttcacaggg aacattcata tatgttgatt aatttagctc 1140
316 gaactttact ctgtcatatc attttggaat attacctctt tcaatgaaac tttataaaca 1200
318 gtggttcaat taattaatat atattataat tacatttggt atgtaataaa ctcggtttta 1260
320 ttataaaaaa a 1271

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/523,655

DATE: 02/22/2005
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Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02222005\J523655.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:6,7

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/523,655

DATE: 02/22/2005

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Input Set : A:\Sequence Listing.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number